

Task 1: Two Buildings

Partner A	Partner B
<p>1. The library is actually 18 m tall.</p> <p>2. The museum is 5 cm wide in the drawing.</p> <p><i>Explanations vary.</i> The actual width is $2.5 \cdot 9 = 22.5$ meters, so the scale drawing is $2.5 \cdot 2 = 5$ centimeters.</p>	<p>1. The museum is actually 27 m tall.</p> <p>2. The library is 4 cm wide in the drawing.</p> <p><i>Explanations vary.</i> The actual width is $2 \cdot 9 = 18$ meters, so the scale drawing is $2 \cdot 2 = 4$ centimeters.</p>

Task 2: Paper Towns

Partner A	Partner B
<p>1. A rectangle 12 cm wide and 9 cm tall.</p> <p>2. The paper town should be 4.5 cm from the southern edge of their drawing.</p> <p>3. The actual area of Weston County is about $45 \cdot 45 = 2025$ square miles.</p>	<p>1. A rectangle 8 cm wide and 6 cm tall.</p> <p>2. The paper town should be 4 cm from the southern edge of their drawing.</p> <p>3. The actual area of Weston County is about $45 \cdot 45 = 2025$ square miles.</p>

Task 3: Dinosaurs!

Partner A	Partner B
<p>1. Darius's drawing. <i>Explanations vary.</i> Darius's drawing will take up less space because 15 m represents 3 cm in Binta's drawing but only 2 cm in Darius's.</p> <p>2. The length of the dinosaur is 4 cm in Darius's drawing.</p>	<p>1. Darius's drawing. <i>Explanations vary.</i> Darius's drawing will take up less space because 15 m represents 3 cm in Binta's drawing but only 2 cm in Darius's.</p> <p>2. The height of the dinosaur is 4.5 cm in Binta's drawing.</p>

Task 4: What's the Scale?

Partner A	Partner B
<p>1. 4 micrometers to 1 cm, 0.0000004 m to 1 cm (or equivalent).</p> <p>2. 8 micrometers represents 2 cm on the epidemiologist's first drawing.</p>	<p>1. 5 micrometers to 1 cm, 20 micrometers to 4 cm (or equivalent).</p> <p>2. 10 micrometers represents 2 cm on the epidemiologist's second drawing.</p>

Are You Ready for More?

Responses vary. One possibility is 3 cm to 9 m for the library and 2 cm to 9 m for the museum.

Are You Ready for Even More?

- Empire State Building: **B**
- Hagia Sophia: **A, D**